

September 20, 2002

Vendors for Specification 02-218
Annual Supply of Dry Cationic Polymer

Dear Vendor:

Specification 02-218 for the Annual Supply of Dry Cationic Polymer requires that the product to be submitted for bid must be tested and pre-qualified. The testing will take place at the Theresa Street Waste Water Plant between the dates of October 14 and October 25.

Sections four (4) and five (5) of the specifications explains both the trial process and the contact person to schedule the trial. Section seven (7) explains the basis for award and bidding.

Please schedule a time with Marshall Coleman as soon as possible. Contact me in Purchasing with any questions.

Thanks,

Tom Kopplin
Assistant Purchasing Agent
City of Lincoln
Phone (402) 441-7414
Fax (402) 441-6513

**IT IS THE VENDOR'S RESPONSIBILITY TO CHECK FOR
ADDENDUMS PRIOR TO SUBMITTING PROPOSALS**

NOTICE TO BIDDERS SPECIFICATION NO. 02-218

The City of Lincoln, Nebraska intends to purchase and invites you to submit a sealed bid for:

THE ANNUAL REQUIREMENTS FOR DRY CATIONIC POLYMER

MEETING OR EXCEEDING THE CITY OF LINCOLN'S SPECIFICATIONS ATTACHED

Sealed bids will be received by the City of Lincoln, Nebraska on or before 12:00 noon Wednesday, October 16, 2002 in the office of the Purchasing Agent, Suite 200, Southwest Wing, K Street Complex, 440 South 8th Street, Lincoln, Nebraska 68508. Bids will be publicly opened and read at the K Street Complex.

Bidders should take caution if U.S. mail or mail delivery services are used for the submission of bids. Mailing should be made in sufficient time for bids to arrive in the Purchasing Division, prior to the time and date specified above.

Company Name _____

**PROPOSAL
SPECIFICATION NO. 02-218**

**BID OPENING TIME: 12:00 NOON
DATE: 10/16/02**

The undersigned bidder, having full knowledge of the requirements of the City of Lincoln for the below listed items and the contract documents (which include Notice to Bidders, Instructions to Bidders, this Proposal, Specifications, Contract, and any and all addenda) and all other conditions of the Proposal, agrees to sell to the City the below listed items for the performance of this Specification, complete in every respect, in strict accordance with the contract documents at and for unit prices listed below.

ADDENDA RECEIPT: The receipt of addenda to the specifications numbers _____ through _____ are hereby acknowledged. Failure of any bidder to receive any addendum or interpretation of the specifications shall not relieve the bidder from obligations specified in the bid request. All addenda shall become part of the final contract document.

BIDDING SCHEDULE

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED ANNUAL QUANTITY</u>	<u>UNIT</u>	<u>TOTAL</u>
1.	DRY CATIONIC POLYMER	60,000 lbs	\$ _____ Lb	\$ _____
	MFG. _____ PRODUCT NO. _____			

BID SECURITY REQUIRED:

Yes _____ Amount: _____
No X _____

Special provisions for Commodity Term Contracts are included with the specification document. Bidders are urged to read the Special Provisions before completing the following sections of the Proposal.

Contract Extension Renewal is an option:

Yes _____
No _____

TERM PRICE CLAUSE: BIDDER MUST STATE

- (a) Bid prices firm for the full contract period: _____ ; or
(b) Bid prices subject to escalation/de-escalation: _____ .
(c) If (b), state period for which prices will remain firm:
Through _____ .

COMPANY REPRESENTATIVE responsible for the administration of this Agreement:

NAME: _____
TITLE: _____
PHONE NO. _____

AFFIRMATIVE ACTION PROGRAM: Successful bidder will be required to comply with the provisions of the City's Affirmative Action Policy (Contract Compliance, Sec. 1.16). The Equal Opportunity Officer will determine compliance or non-compliance, upon a complete and substantial review of successful bidder's equal opportunity policies, procedures and practices.

The undersigned signatory for the bidder represents and warrants that he has full and complete authority to submit this proposal to the City, and to enter into a contract if this proposal is accepted.

**RETURN 2 COMPLETE COPIES OF PROPOSAL AND SUPPORTING MATERIAL.
MARK OUTSIDE OF BID ENVELOPE AS FOLLOWS:
SEALED BID FOR SPEC. 02-218**

COMPANY NAME

BY (Signature)

STREET ADDRESS or P.O. BOX

(Print Name)

CITY, STATE ZIP CODE

(Title)

TELEPHONE No. FAX No.

(Date)

**EMPLOYER'S FEDERAL I.D. NO.
OR SOCIAL SECURITY NUMBER**

**ESTIMATED DELIVERY DAYS (After
receipt of individual orders)**

E-MAIL ADDRESS

TERMS OF PAYMENT

BIDS MAY BE INSPECTED IN THE PURCHASING DIVISION OFFICES DURING NORMAL BUSINESS HOURS, **AFTER** TABULATION BY THE PURCHASING AGENT. IF YOU DESIRE A COPY OF THE BID TABULATION TO BE MAILED TO YOU, YOU MUST ENCLOSE A SELF-ADDRESSED STAMPED ENVELOPE WITH YOUR BIDDING DOCUMENTS.

INSTRUCTIONS TO BIDDERS

CITY OF LINCOLN, NEBRASKA PURCHASING DIVISION

1. BIDDING PROCEDURE

- 1.1 Bidder shall submit two (2) complete sets of the bid documents and all supporting material. All appropriate blanks shall be completed. Any interlineation, alteration or erasure on the specification document shall be initialed by the signer of the bid. Bidder shall not change the proposal form nor make additional stipulations on the specification document. Any amplified or qualifying information shall be on the bidder's letterhead and firmly attached to the specification document.
- 1.2 Bid prices shall be submitted on the Proposal Form included in the bid document.
- 1.3 Bidders may submit a bid on an "all or none" or "lump sum" basis, but should also submit a quotation on an item-by-item basis. Bidding documents shall be clearly marked indicating the kind of proposal being submitted.
- 1.4 Each bid must be legibly printed in ink or by typewriter, include the full name, business address, and telephone number of the bidder; and be signed in ink by the bidder.
- 1.5 A bid by a firm or organization other than a corporation must include the name and address of each member.
- 1.6 A bid by a corporation must be signed in the name of such corporation by a duly authorized official thereof.
- 1.7 Any person signing a bid for a firm, corporation, or other organization must show evidence of his authority so to bind such firm, corporation, or organization.
- 1.8 Bids received after the time and date established for receiving bids will be rejected.

2. BIDDER'S SECURITY

- 2.1 Bid security, as a guarantee of good faith, in the form of a certified check, cashier's check, or bidder's bond, may be required to be submitted with this bid document, as indicated of the Proposal Form.
- 2.2 If alternate bids are submitted, only one bid security will be required, provided the bid security is based on the amount of the highest gross bid.
- 2.3 Such bid security will be returned to the unsuccessful bidders when the award of bid is made.
- 2.4 Bid security will be returned to the successful bidder(s) as follows:
 - 2.4.1 For single order bids with specified quantities: upon the delivery of all equipment or merchandise, and upon final acceptance by the City.
 - 2.4.2 For all other contracts: upon approval by the City of the executed contract and bonds.
- 2.5 City shall have the right to retain the bid security of bidders to whom an award is being considered until either:
 - 2.5.1 A contract has been executed and bonds have been furnished.
 - 2.5.2 The specified time has elapsed so that the bids may be withdrawn.
 - 2.5.3 All bids have been rejected.

- 2.6 Bid security will be forfeited to the City as full liquidated damages, but not as a penalty, for any of the following reasons, as pertains to this specification document:

- 2.6.1 If the bidder fails to deliver the equipment or merchandise in full compliance with the accepted proposal and specifications.
- 2.6.2 If the bidder fails or refuses to enter into a contract on forms provided by the City, and/or if the bidder fails to provide sufficient bonds or insurance within the time period as established in this specification document.

3. EQUAL OPPORTUNITY

- 3.1 Each bidder agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, disability, age, or marital status. Bidder shall fully comply with the provisions of Chapter 11.08 of the Lincoln Municipal Code.
- 3.2 Successful bidder will be required to comply with the provisions of the City's Affirmative Action Policy (Contract Compliance, Sec. 1.16).
- 3.3 The Equal Opportunity Officer will determine compliance or non-compliance with the City's Affirmative Action Policy upon a complete and substantial review of successful bidder's equal opportunity policies, procedures and practices.

4. DATA PRIVACY

- 4.1 Bidder agrees to abide by all applicable State and Federal laws and regulations concerning the handling and disclosure of private and confidential information concerning individuals and corporations as to inventions, copyrights, patents and patent rights.
- 4.2 The bidder agrees to hold the City harmless from any claims resulting from the bidder's unlawful disclosure or use of private or confidential information.

5. BIDDER'S REPRESENTATION

- 5.1 Each bidder by signing and submitting a bid, represents that the bidder has read and understands the specification documents, and the bid has been made in accordance therewith.
- 5.2 Each bidder for services further represents that the bidder is familiar with the local conditions under which the work is to be done and has correlated the observations with the requirements of the bid documents.

6. INDEPENDENT PRICE DETERMINATION

- 6.1 By signing and submitting this bid, the bidder certifies that the prices in this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor; unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder prior to bid opening directly or indirectly to any other bidder or to any competitor; no attempt has been made, or will be made, by the bidder to induce any person or firm to submit, or not to submit, a bid for the purpose of restricting competition.

7. CLARIFICATION OF SPECIFICATION DOCUMENTS

- 7.1 Bidders shall promptly notify the Purchasing Agent of any ambiguity, inconsistency or error which they may discover upon examination of the specification documents.
- 7.2 Bidders desiring clarification or interpretation of the specification documents shall make a written request which must reach the Purchasing Agent at least seven (7) calendar days prior to the date and time for receipt of bids.
- 7.3 Interpretations, corrections and changes made to the specification documents will be made by written addenda.
- 7.4 Oral interpretations or changes to the Specification Documents made in any other manner, will not be binding on the City; and bidders shall not rely upon such interpretations or changes.

8. ADDENDA

- 8.1 Addenda are written instruments issued by the City prior to the date for receipt of bids which modify or interpret the specification document by addition, deletion, clarification or correction.
- 8.2 Addenda will be mailed or delivered to all who are known by the City to have received a complete set of specification documents.
- 8.3 Copies of addenda will be made available for inspection at the office of the Purchasing Agent.
- 8.4 No addendum will be issued later than forty-eight (48) hours prior to the date and time for receipt of bids, except an addendum withdrawing the invitation to bid, or an addendum which includes postponement of the bid.
- 8.5 Bidders shall ascertain prior to submitting their bid that they have received all addenda issued, and they shall acknowledge receipt of addenda on the proposal form.

9. ANTI-LOBBYING PROVISION

- 9.1 During the period between the bid close date and the contract award, bidders, including their agents and representatives, shall not directly discuss or promote their bid with any member of the City Council or City Staff except in the course of City-sponsored inquiries, briefings, interviews, or presentations, unless requested by the City.

10. BRAND NAMES

- 10.1 Wherever in the specifications or proposal form brand names, manufacturer, trade name, or catalog numbers are specified, it is for the purpose of establishing a grade or quality of material only; and the term "or equal" is deemed to follow.
- 10.2 It is the bidder's responsibility to identify any alternate items offered in the bid, and prove to the satisfaction of the City that said item is equal to, or better than, the product specified.
- 10.3 Bids for alternate items shall be stated in the appropriate brand on the proposal form, or if the proposal form does not contain blanks for alternates, bidder MUST attach to the specification documents on Company letterhead a statement identifying the manufacturer and brand name of each proposed alternate, plus a complete description of the alternate items including illustrations, performance test data and any other information necessary for an evaluation. The bidder must indicate any variances by item number from the specification document no matter how slight. Bidder must fully explain the variances from the specification document, since brochure information may not be sufficient.

- 10.4 If variations are not stated in the proposal, it will be assumed that the item being bid fully complies with the City's specifications.

11. DEMONSTRATIONS/SAMPLES

- 11.1 Bidders shall demonstrate the exact item(s) proposed within seven (7) calendar days from receipt of such request from the City.
- 11.2 Such demonstration can be at the City delivery location or a surrounding community.
- 11.3 If bidder does not have an item in the area, it will be at the bidder's expense to send appropriate City personnel to the nearest location to view and inspect proposed item(s).
- 11.4 If items are small and malleable, and the bidder is proposing an alternate product, the bidder MUST supply a sample of the exact item. Samples will be returned at bidder's expense after receipt by the City of acceptable goods. Bidders must indicate how samples are to be returned.

12. DELIVERY

- 12.1 Each bidder shall state on his proposal form the date upon which he can make delivery of all equipment or merchandise. Time required for delivery is hereby made an essential element of the bid.
- 12.2 The City reserves the right to cancel orders, or any part thereof, without obligation, if delivery is not made within the time(s) specified on the proposal form.
- 12.3 All bids shall be based upon **inside** delivery of the equipment or merchandise F.O.B. the City at the location specified by the City, with all transportation charges paid.

13. WARRANTIES, GUARANTEES AND MAINTENANCE

- 13.1 Copies of the following documents must accompany the bid proposal for all items being bid:
 - 13.1.1 Manufacturer's warranties and/or guarantees.
 - 13.1.2 Bidder's maintenance policies and associated costs.
- 13.2 As a minimum requirement of the City, the bidder will guarantee in writing that any defective components discovered within a one (1) year period after the date of acceptance shall be replaced at no expense to the City. Replacement parts of defective components shall be shipped at no cost to the City. Shipping costs for defective parts required to be returned to the bidder shall be paid by the bidder.
- 13.3 Bidder Warrants and represents to the City that all software/firmware/ hardware/equipment /systems developed, distributed, installed or programmed by Bidder pursuant to this Specification and Agreement.
 - 13.3.1 That all date recognition and processing by the software/firmware/hardware/equipment/system will include the four-digit-year format and will correctly recognize and process the date of February 29, and any related data, during Leap years; and
 - 13.3.2 That all date sorting by the software /firmware/hardware/ equipment/system that includes a "year category" shall be done based on the four-digit-year format. Upon being notified in writing by the City of the failure of any software/ firmware/ hardware /equipment /systems to comply with this Specification and Agreement, Contractor will, within 60 days and at no cost to the City, replace or correct the non-

complying software/ firmware/ hardware/ equipment/ systems with software/firmware/ hardware/equipment/ systems that does comply with this Specification and Agreement.

- 13.3.3 No Disclaimers: The warranties and representations set forth in this section 13.3 shall not be subject to any disclaimer or exclusion of warranties or to any limitations of Licensor's liability under this Specification and Agreement.

14. ACCEPTANCE OF MATERIAL

- 14.1 All components used in the manufacture or construction of materials, supplies and equipment, and all finished materials, shall be new, the latest make/model, of the best quality, and the highest grade workmanship.
- 14.2 Material delivered under this proposal shall remain the property of the bidder until:
- 14.2.1 A physical inspection and actual usage of this material is made and found to be acceptable to the City; and
- 14.2.2 Material is determined to be in full compliance with the specifications and accepted proposal.
- 14.3 In the event the delivered material is found to be defective or does not conform to the specification documents and accepted proposal, then the City reserves the right to cancel the order upon written notice to the bidder and return materials to the bidder at bidder's expense.
- 14.4 Successful bidder shall be required to furnish title to the material, free and clear of all liens and encumbrances, issued in the name of the City of Lincoln, Nebraska, as required by the specification documents or purchase orders.
- 14.5 Selling dealer's advertising decals, stickers or other signs shall not be affixed to equipment. Vehicle mud flaps shall be installed blank side out with no advertisements. Manufacturer's standard production forgings, stampings, nameplates and logos are acceptable.

15. BID EVALUATION AND AWARD

- 15.1 The signed bid proposal shall be considered an offer on the part of the bidder. Such offer shall be deemed accepted upon issuance by the City of purchase orders, contract award notifications, or other contract documents appropriate to the work.
- 15.2 No bid shall be modified or withdrawn for a period of sixty (60) calendar days after the time and date established for receiving bids, and each bidder so agrees in submitting the bid.
- 15.3 In case of a discrepancy between the unit prices and their extensions, the unit prices shall govern.
- 15.4 The bid will be awarded to the lowest responsive, responsible bidder whose proposal will be most advantageous to the City, and as the City deems will best serve their requirements.
- 15.5 The City reserves the right to accept or reject any or all bids; to request rebids; to award bids item-by-item, by groups, or "lump sum"; to waive irregularities and technicalities in bids; such as shall best serve the requirements and interests of the City.

16. INDEMNIFICATION

- 16.1 The bidder shall indemnify and hold harmless the City, its members, its officers and employees from and against all claims, damages, losses, and expenses, including, but not limited to attorney's fees arising out of or resulting from the performance of the contract, provided that any such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property other than goods, materials and equipment furnished under this contract) including the loss or use resulting therefrom; is caused in whole or part by any negligent act or omission of the bidder, any subcontractor, or anyone directly or indirectly employed by any one of them or anyone for whose acts made by any of them may be liable, regardless of whether or not it is caused by a party indemnified hereunder.
- 16.2 In any and all claims against the City or any of its members, officers or employees by an employee of the bidder, any subcontractor, anyone directly or indirectly employed by any of them or by anyone for whose acts made by any of them may be liable, the indemnification obligation under paragraph 16.1 shall not be limited in any way by any limitation of the amount or type of damages, compensation or benefits payable by or for the bidder or any subcontractor under worker's or workmen's compensation acts, disability benefit acts or other employee benefit acts.

17. TERMS OF PAYMENT

- 17.1 Unless other specification provisions state otherwise, payment in full will be made by the City within thirty (30) calendar days after all labor has been performed and all equipment or other merchandise has been delivered, and all such labor and equipment and other materials have met all contract specifications.

18. LAWS

- 18.1 The Laws of the State of Nebraska shall govern the rights, obligations, and remedies of the Parties under this proposal and any agreement reached as a result of this process.

SPECIAL PROVISIONS FOR COMMODITY TERM CONTRACTS

CITY OF LINCOLN, NEBRASKA PURCHASING DIVISION

1. ESTIMATED QUANTITIES

- 1.1 The quantities set forth in the specification document are approximate and represent the estimated requirements of the City for the contract period.
- 1.2 Items listed may or may not be inclusive of City requirements for this category.
- 1.3 Category items not listed, but distributed by bidder are to be referred to as kindred items. Kindred items shall receive the same percentage of discount or pricing structure as items listed in the specification document.
- 1.4 The unit prices and the extended total prices shall be used only as a basis for the evaluation of bids. The actual quantity of materials necessary may be more or less than the estimates listed in the specification document, but the City shall be neither obligated nor limited to any specified amount. The City will, if possible, restrict increases/decreases to 20% of the estimated quantities listed in the specification document.

2. CONTRACT PERIOD

- 2.1 The material shall be delivered as ordered during the contract period, beginning from the date of contract and ending one (1) year from that date, or as otherwise indicated on the proposal form.
- 2.2 The City is interested in a one (1) year contract, with the option to renew for additional one (1) year periods, not to exceed three (3) such renewals. Bidder must indicate on the proposal form if extension renewals are an option. By mutual consent of both parties it is understood and agreed that the contract may be renewed only at the same prices and/or under the same conditions governing the original contract; and any request for an increase in price or a change in the contract conditions shall be interpreted as a request not to renew the contract at the end of the current contract period.

3. BID PRICES

- 3.1 Bidders must state on the proposal form if the bid prices will remain firm for the full contract period; or if the bid prices will be subject to escalation/de-escalation.
- 3.2 Escalation/De-escalation Clause: In the event that prevailing market conditions warrant an adjustment in bid prices contained in the contract, the following escalation/de-escalation clause shall be the only clause applicable or acceptable to the City:
 1. Contractor shall give written notice to the Purchasing Agent of any proposed changes from contract prices not less than thirty (30) calendar days prior to the effective date of said price changes.
 2. Such notice must be accompanied by a certified copy of the supplier's advisory or notification to the contractor of price changes.
 3. No price escalation will be authorized in excess of the amount of the increase referred to on the supplier's notice.
 4. The approved price change shall be honored for all orders received by the contractor after the effective date of such price change.

5. Approved price changes are not applicable to orders already issued and in process at time of price change.
6. The City reserves the right to audit and/or examine any pertinent books, documents, papers, records or invoices relating directly to the contract transaction in question after reasonable notice and during normal business hours.
7. The Purchasing Agent retains the right to determine whether or not such proposed price changes are in the best interests of the City.
8. If in the opinion of the Purchasing Agent any proposed increase is found unacceptable, the Purchasing Agent reserves the right to cancel the contract upon thirty (30) calendar days written notice.
9. Contractors must tie any price change clause to an industry-wide or otherwise nationally recognized index, or some other form of verifiable document. Contractor will put the Purchasing Agent on the mailing lists for such publication so that the Purchasing Agent can monitor said changes. Such membership will be at no cost to the City.

4. CONTRACT AWARD NOTIFICATION

- 4.1 The Purchasing Division will issue a Contract Award Notification to all successful bidders. Such contract award notification will incorporate the City's specifications, and may incorporate the bidder's specifications.
- 4.2 No action need be taken by the contractors at time of receipt of such Contract Award Notification.
- 4.3 Orders for materials will be made as needed by the various City Departments.

5. QUARTERLY REPORT

- 5.1 The contractor shall provide to the Purchasing Agent a quarterly report, showing all purchases made under the terms and conditions of the contract.
- 5.2 Such quarterly report shall itemize the following information:
 1. Each ordering department.
 2. Items and quantities purchased by department.
 3. Total dollar amount of purchases by department.

SPECIFICATION FOR POLYMER CITY OF LINCOLN WASTEWATER SYSTEM

1. PURPOSE AND SCOPE

- 1.1 The City of Lincoln, Public Works / Utilities - Wastewater Division (hereinafter referred to as the "Owner"), is announcing its intention to extend invitations to manufacturers' and vendor's of dry cationic polymer to open bench test and field trial for the purpose of evaluating various polymers as sludge conditioning agents for dewatering and thickening of wastewater process residue's and to establish a qualified bidder's list for the purpose of receiving competitive bids.
- 1.2 The Owner desires to enter into a one (1) year contract with a supplier to provide polymer to its Theresa Street Wastewater Treatment Facility located at 2400 Theresa Street, Lincoln, Nebraska.
- 1.3 The contract will have a built in option to extend the contract for a maximum of three (3) consecutive one (1) year periods at the Owners' sole discretion.
- 1.4 Dewatering activities at the Theresa Street Facility consume approximately 105,000 pounds of dry cationic polymer on an annual basis.
- 1.5 Due to the variability in effectiveness of polymers, this specification outlines the general methods and procedures by which a qualified bidder's list will be determined.

2. PROCESS DESCRIPTION

- 2.1 The Theresa Street Wastewater Facility is a municipal wastewater treatment facility treating domestic, commercial, and industrial wastes.
- 2.2 We currently receive and average daily flow of approximately 20 million gallons.
- 2.3 Solids generated from primary treatment, dissolved air floatation (DAF) thickening of secondary waste activated sludge, and trucked in septic wastes are an-aerobically stabilized by three (3) 1.1 million gallon mesophilic digesters with an average detention time of 18-22 days.
- 2.4 The an-aerobically stabilized sludge is dewatered utilizing three (3) two (2) meter belt filter presses, which currently dewater the solids to cake containing approximately 18-22 percent solids.
- 2.5 The belt filter presses are operational for 9-11 hours each per day during a typical dewatering weekly schedule of 4-5 days.
- 2.6 Dry cationic polymer is currently shipped to the Theresa Street Facility in 1,500 pound super sacks for use in the belt filter press dewatering operation, and on pallets containing 30, 50 pound bags for use in the DAF thickening operation.

- 2.7 The super sacks are suspended from the operating floor and dry polymer is fed through a Fox eductor and Rotron blower, which conveys the dry polymer to a Stranco Poly-Blend automated polymer batching and feed system; the dry polymer used in our DAF operation is hand batched. The city currently uses one type of polymer for its dewatering and thickening processes.
- 2.8 Dewatered solids are transported from the facility by a contract hauler to area farm land or to a temporary holding facility located at the city's Bluff Road Landfill.

3. AVERAGE ANNUAL VOLUMES AND CONCENTRATIONS

- 3.1 Primary sludge and trucked in wastes - approximately 88,000 GPD - (79,000 GPD Primary Sludge; 9,000 GPD Trucked in Wastes).
- 3.2 Secondary waste activated feed to DAF - approximately 205,000 GPD @ 0.84% solids.
- 3.3 Thickened waste activated sludge from the DAF operation approximately 14,200 lbs/day @ 4.74% solids
- 3.4 Total waste feed to the anaerobic digesters - approximately 127,000 GPD @ 4 to 6% solids
- 3.5 Stabilized sludge feed to Belt Filter Presses - approximately 235,000 GPD @ 2.4 to 2.6% solids operating four (4) to five (5) days per week.
- 3.6 Dewatered sludge yield - approximately 52,000 lbs/day @ 20% solids.

4. POLYMER TRIALS

- 4.1 Each prospective supplier will be required to perform an on site trial using a 2-meter belt filter press for the polymer(s) being considered before being awarded a contract.
- 4.2 Laboratory bench scale tests may be conducted to screen polymers; however, results will not be used as a basis for becoming a "qualified bidder".
 - 4.2.1 The only products that will be evaluated in this process are those polymers directly supplied by a manufacturer.
 - 4.2.2 Blended or repackaged products of another company's manufacturer will not be considered.
 - 4.2.3 The Owner shall be the sole judge of the polymer evaluation and qualification procedures and may modify these procedures as conditions warrant without further written or verbal notification to the respondents of this solicitation.
- 4.3 All arrangements for polymer trial and qualification are to be made with Marshall R. Coleman, Assistant Superintendent of Operations, City of Lincoln Wastewater System, 2400 Theresa Street, Lincoln, Nebraska, 68521, Work phone (402) 441-7965, Fax (402) 441-8735, E-Mail mcoleman@ci.lincoln.ne.us.

5. MINIMUM REQUIREMENTS

- 5.1 Polymer for belt filter press dewatering operation shall be supplied and delivered in 1,500-pound super sacks.
 - 5.1.1 Polymer shall also be available in 50-pound bags for use in our dissolved air floatation, secondary waste activated sludge thickening process.
 - 5.1.2 Polymer provided shall be dry soluble.
 - 5.1.3 Minimum cake solids will be 19.0%.
 - 5.1.4 Minimum sludge feed rate to one (1) 2-meter belt filter press will be 120 GPM.
 - 5.1.5 Minimum solids capture through the belt filter press will be 94.0%.

6. PROCEDURES

- 6.1 The City of Lincoln will be scheduling polymer trials from Monday October 14, 2002 to Friday October 25, 2002.
 - 6.1.1 All polymer field trials will have to be conducted at 2400 Theresa Street, Lincoln, Nebraska, and completed no later than October 25, 2002.
- 6.2 Once the on-site trial has been scheduled, the supplier will have a maximum of two (2) working days (Monday through Friday) to test and provide performance results of polymer or polymers being evaluated.
 - 6.2.1 It will be the responsibility of the supplier to determine the best polymer available for the conditioning of the sludge.
 - 6.2.2 Each manufacturer may field trial up to three (3) polymers.
 - 6.2.3 It will be up to the supplier to determine the best polymer available for the conditioning of the sludge during their trial period.
- 6.3 Laboratory counter top space (at the Theresa Street WWTP) will be made available for supplier use.
 - 6.3.1 The supplier will be responsible for providing the appropriate test equipment for their bench scale evaluation.
 - 6.3.2 Results of laboratory bench scale test shall be provided to the Owner.
- 6.4 The supplier shall use the "Polymer Trial Data Sheet" (attached) to record performance data and to provide evaluation data for the Owner from full scale testing using the belt filter press.
- 6.5 The supplier will conduct the field trial utilizing one 2-meter belt filter press currently operated by the City of Lincoln.
 - 6.5.1 A Lincoln Wastewater System Operator will work in conjunction with the supplier to optimize belt filter press performance prior to the actual start of the polymer trial.
 - 6.5.2 City of Lincoln Wastewater System employee(s) shall perform all grab sampling.
 - 6.5.3 All suppliers will use the same belt filter press for field trials.
 - 6.5.4 On-site trials will be performed between the hours of 8:00 AM and 4:00 PM.

- 6.5.5 Belt filter press belts will be thoroughly cleaned at the end of each day.
- 6.5.6 Once the supplier has satisfied himself as to the operating conditions of the belt press, the supplier shall notify the Owner of his intent to begin the polymer trial.
- 6.5.7 The sludge feed rate to the belt filter press during the trial testing period will be 135 gallons per minute.
- 6.6 The supplier will have one (1) 1,200 gallon polymer solution / mixing tank for use during the field trial.
- 6.7 The polymer trial will have duration of one (1) hour minimum to a maximum of two (2) hours.
 - 6.7.1 During the trial, grab samples at 15-minute intervals will be taken on; feed sludge concentration, feed sludge flow rate, belt filter press cake solids for % solids, polymer feed rate, and belt filter press filtrate.
 - 6.7.2 The City of Lincoln wastewater lab will tally and average the results for polymer evaluations.
 - 6.7.3 The results will be based on the average of four consecutive samples within the trial period.
 - 6.7.4 All samples used for the results must be within the same time period.
- 6.8 At the completion of the field trial, the supplier shall furnish to the Owner a Product Data Sheet describing the polymer used in the test.
 - 6.8.1 The Product Data Sheet shall include product description, polymer properties, handling and storage requirements, safety precautions, feeding requirements, and a MSDS.

7. BASIS OF AWARD

- 7.1 Once all supplier trials are completed and results are obtained, an agent from the City of Lincoln's Purchasing Department will notify those suppliers who have been certified for the qualified bidders list and indicate when competitive bids will be taken for the proposed polymers.
 - 7.1.1 The city will request bids from no fewer than two (2) suppliers.
Polymer selection will be based upon dollars per dry ton.
- 7.2 Once the City of Lincoln has selected a supplier / polymer, the supplier shall provide one (1) 1,500-pound bag of selected polymer to the Lincoln Wastewater System for a one (1) week final testing and evaluation period. Lincoln Wastewater System personnel will confirm the operating performance of the polymer and evaluate compatibility with present polymer handling and feed equipment.
 - 7.2.1 The city will reimburse the supplier for the polymer at the bid price. Following successful completion of the final one (1) week testing period, the City of Lincoln will award contract to supplier.
 - 7.2.2 If the Owner is not satisfied with the results of the final testing period, the Owner may elect to choose the next most competitive supplier / polymer from the final qualified bidders list.
- 7.3 Under the purchasing contract, all polymers shall be delivered to the City of Lincoln Wastewater System, 2400 Theresa Street, Lincoln, NE 68521.
- 7.4 All bid price quotes shall include shipping costs for delivery to the City of Lincoln Wastewater System for both 1,500-pound and 50-pound bags.

Polymer Trial Data Sheet

DATE _____ TIME _____ SUPPLIER _____ POLYMER ID _____

POLYMER CONCENTRATION

- A. LBS OF POLYMER USED: _____
- B. GALLONS OF WATER USED: _____
- C. HEIGHT OF SOLUTION IN TANK IN INCHES: _____
- D. LBS OF POLYMER PER INCH OF TANK DEPTH: _____ [C/A]
- E. PERCENT POLYMER SOLUTION: _____ [A/Bx834]

OPERATING DATA

- F. INITIAL SLUDGE FEED TOTALIZER READING: _____ G. TIME: _____
- H. FINAL SLUDGE FEED TOTALIZER READING: _____ I. TIME: _____
- J. INITIAL DEPTH READING IN POLYMER SOLUTION TANK _____ INCHES
- K. FINAL DEPTH READING IN POLYMER SOLUTION TANK _____ INCHES
- M. POUNDS OF POLYMER USED: _____ [J-K*D]
- N. LBS OF DRY SOLIDS PROCESSED: _____ [[H-F/1,000,000]*8.34*P*10,000]
- O. LBS POLYMER USED PER DRY TON SOLIDS: _____ [[M/[N/2000]]
(Used to determine contract supplier once quoted unit cost for polymer received)
- P. SOLIDS CAPTURE RATE IN PERCENT: _____ [[S/R]*100]
- Q. PERCENT SOLIDS OF CAKE: _____ [T]

	#1	#2	#3	#4	#5	#6	#7	#8	Average
Sludge Conc. %Solids									(R)
Sludge Fd Rate gpm									
Polymer Fd Rate gpm									
% Solids Filtrate									(S)
% Solids Cake									(T)

Wastewater Operator Signature _____

Supplier Signature _____